

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334523

Luminaire Tested: **S122IW-S1240U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S1240U840-4F0-1E-UDD-1
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 1240 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4342.6 lumens
Efficiency: N/A
Efficacy: 169.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

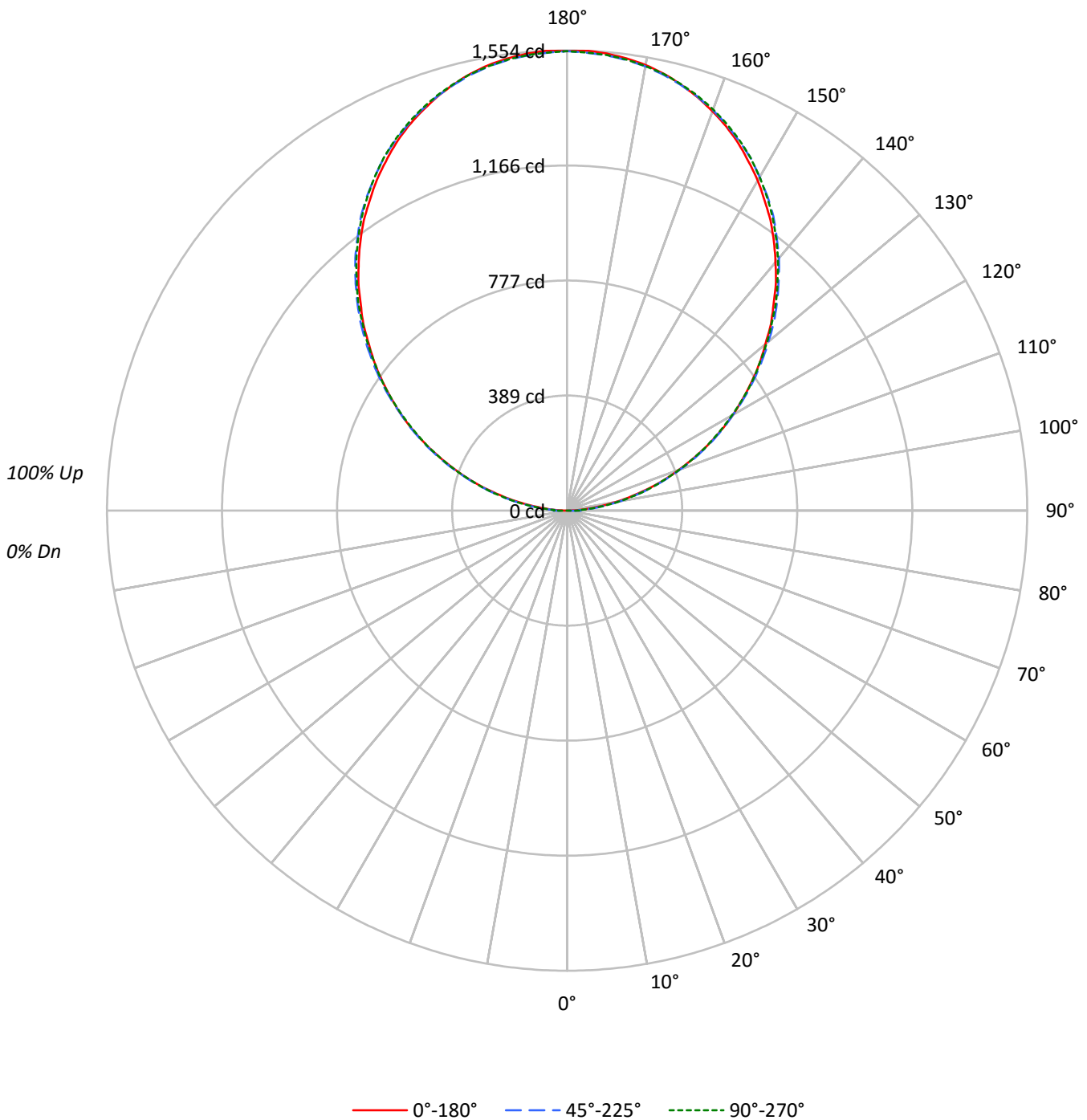
Input Watts (W): 25.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	4.4	0.1
90°-100°	96.0	2.2
100°-110°	305.2	7.0
110°-120°	522.1	12.0
120°-130°	686.7	15.8
130°-140°	770.8	17.7
140°-150°	755.9	17.4
150°-160°	634.1	14.6
160°-170°	420.5	9.7
170°-180°	147.0	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.4	0.1
90°-120°	923.3	21.3
90°-150°	3136.7	72.2
90°-180°	4338.0	99.9
0°-180°	4342.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	17	46	43	44	4
95°	68	81	84	84	81	76
105°	282	286	288	291	291	297
115°	524	532	529	528	524	518
125°	762	774	770	766	765	681
135°	986	1000	1003	1002	998	762
145°	1197	1206	1214	1215	1210	748
155°	1368	1372	1376	1383	1379	630
165°	1489	1488	1488	1497	1490	420
175°	1549	1545	1542	1552	1544	147
180°	1552	1552	1552	1552	1552	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	1.3	17.0	45.8	43.2	44.5
92.5°	28.8	39.3	40.6	41.9	41.9
95°	68.1	81.2	83.8	83.8	81.2
97.5°	113.9	125.7	130.9	130.9	130.9
100°	166.3	176.8	180.7	180.7	179.4
102.5°	221.3	229.2	234.4	235.7	234.4
105°	281.5	285.5	288.1	290.7	290.7
107.5°	341.8	347.0	347.0	348.3	341.8
110°	399.4	407.2	407.2	407.2	403.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.2	470.1	468.8	464.8	462.2
115°	523.8	531.6	529.0	527.7	523.8
117.5°	585.3	595.8	589.2	585.3	581.4
120°	646.9	657.3	646.9	646.9	642.9
122.5°	703.2	716.3	709.7	705.8	703.2
125°	762.1	773.9	769.9	766.0	764.7
127.5°	819.7	834.1	828.9	823.6	819.7
130°	873.4	890.4	887.8	885.2	879.9
132.5°	933.6	946.7	948.0	941.5	937.6
135°	986.0	1000.4	1003.0	1001.7	997.8
137.5°	1043.6	1055.4	1058.0	1056.7	1051.5
140°	1094.7	1106.5	1113.0	1113.0	1107.8
142.5°	1147.1	1158.9	1162.8	1164.1	1158.9
145°	1196.8	1206.0	1213.8	1215.2	1209.9
147.5°	1241.3	1253.1	1258.4	1261.0	1255.7
150°	1287.2	1295.0	1300.3	1304.2	1300.3
152.5°	1327.8	1335.6	1342.2	1347.4	1342.2
155°	1368.4	1372.3	1376.2	1382.8	1378.8
157.5°	1403.7	1406.3	1409.0	1418.1	1411.6
160°	1435.1	1437.8	1439.1	1446.9	1441.7
162.5°	1463.9	1463.9	1465.3	1474.4	1467.9
165°	1488.8	1487.5	1487.5	1496.7	1490.1
167.5°	1511.1	1507.2	1507.2	1516.3	1509.8
170°	1528.1	1524.2	1522.9	1532.0	1524.2
172.5°	1539.9	1536.0	1534.7	1543.8	1536.0
175°	1549.1	1545.1	1542.5	1551.7	1543.8
177.5°	1554.3	1550.4	1547.8	1555.6	1547.8
180°	1551.7	1551.7	1551.7	1551.7	1551.7

(END OF REPORT)